UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



Region 6 Laboratory

Environmental Services Branch 10625 Fallstone Road, Houston, TX 77099 Fax: (281)983-2248 Phone: (281)983-2100

Final Analytical Report

	Site Name	Oil Trust Fund
	Sample Collection I	Date(s) 09/14/10
	Contact	Rich Mayer (6PD-F)
	Report Date	09/23/10
	Project #	10REG276
	Work Order(s)	1009034
Analyses included in this	s report:	
LC DOSS		
Report Narrative		
Work orders 1009030) and 1009034 shared the s	ame quality control samples.
DOSS was not found	at or above the reporting li	imit for samples in work order 1009034.
NoteDOSS was not	found at or above the 10ug	g/L (ppb) level of interest
<u> </u>	ple results. The results ap	quality control were followed in the analysis and oply only to the samples tested. This final report
Reporting limits are a	adjusted for sample size and	d matrix interference.
Report Approvals:		
Richard McMillin		David Neleigh
Region 6 Laboratory Ma	anager	Region 6 Laboratory Branch Chief

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Please provide a reason for holding:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Oil Trust Fund Project Number: 10REG276					
Data Management Coordinator: Christy Warre					
	/ /				
Data Management Coordinator Signature	Date				
Date Transmitted:/					
Please have the U.S. EPA Project Manager/Off comments or questions.	Ficer call the Data Management Coordinator at 3-2137 for any				
Please sign and date this form below and return	n it with any comments to:				
Christy Warren Data Management Coordinator Region 6 Laboratory 6MD-HS					
Received by and Date					
Comments:					
The laboratory routinely disposes of samples 90 hold these samples in custody longer than 90 days	0 days after all analyses have been completed. If you have a need to ays, please sign below.				
Signature	Date				



Region 6 Laboratory

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ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
T008-R603-100914-SW-09-1	1009034-01	Liquid	9/14/10 11:00	09/15/10 09:40
T008-R603-100914-SW-17-1	1009034-02	Liquid	9/14/10 10:29	09/15/10 09:40
T008-R604-100914-SW-11-1	1009034-03	Liquid	9/14/10 11:48	09/15/10 09:40
T008-R604-100914-SW-21-1	1009034-04	Liquid	9/14/10 11:48	09/15/10 09:40
T008-R607-100914-SW-12-1	1009034-05	Liquid	9/14/10 15:10	09/15/10 09:40
T008-R607-100914-SW-24-1	1009034-06	Liquid	9/14/10 14:48	09/15/10 09:40
T001-1462-100914-SW-08-1	1009034-07	Liquid	9/14/10 8:25	09/15/10 09:40
T001-1462-100914-SW-14-1	1009034-08	Liquid	9/14/10 8:00	09/15/10 09:40
T001-1466-100914-SW-08-1	1009034-09	Liquid	9/14/10 9:45	09/15/10 09:40
T001-1466-100914-SW-14-1	1009034-10	Liquid	9/14/10 9:30	09/15/10 09:40
T001-SV231-100914-SW-01-1	1009034-11	Liquid	9/14/10 15:54	09/15/10 09:40

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DOSS by LC/MS/MS

Lab ID: 1009034-01

Batch: B0I1601 Sample Type: Liquid Station ID: T008-R603-100914-SW-09-1

Date Collected: 09/14/10 Sample Volume: 30 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	127		99.2	50-150	09/17/10 09/21/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	09/17/10 09/21/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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DOSS by LC/MS/MS

Lab ID: 1009034-02

Batch: B0I1601 Sample Type: Liquid Station ID: T008-R603-100914-SW-17-1

Date Collected: 09/14/10 Sample Volume: 26 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	135		91.1	50-150	09/17/10 09/21/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	S Dilution	Prepared Analyzed

Dioctyl sulfosuccinate, sodium salt (577-11-7) 20.0 09/17/10 09/21/10 U 1

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DOSS by LC/MS/MS

Lab ID: 1009034-03

Batch: B0I1601 Sample Type: Liquid Station ID: T008-R604-100914-SW-11-1

Date Collected: 09/14/10 Sample Volume: 22 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	180		103	50-150	09/17/10	09/21/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.5	1	09/17/10	09/21/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

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DOSS by LC/MS/MS

Lab ID: 1009034-04

Batch: B0I1601 Sample Type: Liquid Date Collected: 09/14/10

Sample Volume: 23 ml Sample Qualifiers:

Station ID: T008-R604-100914-SW-21-1

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	158		94.1	50-150	09/17/10	09/21/10
		Targets				
Analyte (CAS Number)	Result	Analyte Qualifiers	Reporting	•	Prepared	Analyzad

 $\mu g/I$ Lımıt Dilution Prepared Analyzed U 20.0 09/17/10 09/21/10 Dioctyl sulfosuccinate, sodium salt (577-11-7)

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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DOSS by LC/MS/MS

Lab ID: 1009034-05

Batch: B0I1601 Sample Type: Liquid Station ID: T008-R607-100914-SW-12-1

Date Collected: 09/14/10 Sample Volume: 21 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	176		95.9	50-150	09/17/10 09/21/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	09/17/10 09/21/10

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DOSS by LC/MS/MS

Lab ID: 1009034-06

Batch: B0I1601 Sample Type: Liquid Station ID: T008-R607-100914-SW-24-1

Date Collected: 09/14/10 Sample Volume: 20 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	180		93.6	50-150	09/17/10 09/21/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate sodium salt (577-11-7)	IJ		19.5	1	09/17/10 09/21/10

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DOSS by LC/MS/MS

Lab ID: 1009034-07

Batch: B0I1601 Sample Type: Liquid Date Collected: 09/14/10 Sample Volume: 20 ml

Sample Qualifiers:

Station ID: T001-1462-100914-SW-08-1

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	177		91.7	50-150	09/17/10	09/21/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	•	Prepared	Analyzed

Dioctyl sulfosuccinate, sodium salt (577-11-7) U 20.0 09/17/10 09/21/10 1

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DOSS by LC/MS/MS

Lab ID: 1009034-08

Batch: B0I1601 Sample Type: Liquid Date Collected: 09/14/10 Sample Volume: 19 ml

Sample Qualifiers:

Station ID: T001-1462-100914-SW-14-1

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	194		95.8	50-150	09/17/10 09/21/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	; Dilution	Prepared Analyzed

Dioctyl sulfosuccinate, sodium salt (577-11-7) U 20.0 1 09/17/10 09/21/10

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DOSS by LC/MS/MS

Lab ID: 1009034-09

Batch: B0I1601 Sample Type: Liquid

Station ID: T001-1466-100914-SW-08-1

Date Collected: 09/14/10 Sample Volume: 20 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	203		105	50-150	09/17/10	09/21/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	IJ		20.0	1	09/17/10	09/21/10

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DOSS by LC/MS/MS

Lab ID: 1009034-10

Batch: B0I1601 Sample Type: Liquid

Station ID: T001-1466-100914-SW-14-1 Date Collected: 09/14/10 Sample Volume: 20 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	182		94.2	50-150	09/17/10	09/21/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	•	Prepared	Analyzed

Dioctyl sulfosuccinate, sodium salt (577-11-7) U 20.0 09/17/10 09/21/10 1

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DOSS by LC/MS/MS

1009034-11 Lab ID:

Batch: B0I1601 Sample Type: Liquid Station ID: T001-SV231-100914-SW-01-1

Date Collected: 09/14/10 Sample Volume: 20 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	189		98.1	50-150	09/17/10	09/21/10
		Targets				
Analyte (CAS Number)	Result	Analyte Qualifiers	Reporting	•	Droporod	Analyzad

Dilution Limit Prepared Analyzed μg/I U 20.0 09/17/10 09/21/10 Dioctyl sulfosuccinate, sodium salt (577-11-7) 1

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DOSS by LC/MS/MS - Quality Control

Batch: B0I1601 Sample Type: Liquid

Blank (**B0I1601-BLK1**)

Prepared: 9/17/2010 Analyzed: 9/21/2010

Surrogates

	ANI ANI NYTOE		Analyte	Spike		%REC
	ANALYTE	μg/l	Qualifier	Level	%REC	Limits
,	Surr: DOSS-D34	196		193	102	50-150

Blank (B0I1601-BLK1)

Prepared: 9/17/2010 Analyzed: 9/21/2010

Targets

ANALYTE		Analyte Reporting Qualifiers Limit	
Dioctyl sulfosuccinate, sodium	U	20.0	

salt

LCS (B0I1601-BS1)

Prepared: 9/17/2010 Analyzed: 9/21/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: DOSS-D34	199		193	103	50-150

LCS (B0I1601-BS1)

Prepared: 9/17/2010 Analyzed: 9/21/2010

Targets

ANALYTE	Result	Analyte Reporting	Spike	%REC
	µg/l	Qualifiers Limit	Level	%REC Limits
Dioctyl sulfosuccinate, sodium salt	97.3	20.0	94.9	103 50-150

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DOSS by LC/MS/MS - Quality Control

Batch: B0I1601 Sample Type: Liquid

Matrix Spike (B0I1601-MS1)

Source: 1009030-02 Prepared: 9/17/2010 Analyzed: 9/21/2010

Surrogates

ANALYTE	Result	Analyte	Spike	%REC
	µg/l	Qualifier	Level	%REC Limits
Surr: DOSS-D34	170		183	92.9 50-150

Matrix Spike (B0I1601-MS1)

Prepared: 9/17/2010 Analyzed: 9/21/2010 Source: 1009030-02

Targets

ANALYTE		Analyte Reporting Qualifiers Limit			%REC Limits	
Dioctyl sulfosuccinate, sodium	91.6	20.0	90.4	101	50-150	

Matrix Spike (B0I1601-MS2)

Prepared: 9/17/2010 Analyzed: 9/21/2010 Source: 1009034-02

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: DOSS-D34	137		133	103	50-150

Matrix Spike (B0I1601-MS2)

Prepared: 9/17/2010 Analyzed: 9/21/2010 Source: 1009034-02

Targets

ANALYTE		Analyte Reporting Qualifiers Limit		%REC	%REC Limits	
Dioctyl sulfosuccinate, sodium salt	61.4	20.0	65.4	93.8	50-150	

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DOSS by LC/MS/MS - Quality Control

Batch: B0I1601 Sample Type: Liquid

Matrix Spike (B0I1601-MS3)

Source: 1009034-11 Prepared: 9/17/2010 Analyzed: 9/21/2010

Surrogates

ANALYTE	Result	Analyte	Spike	%REC
	µg/l	Qualifier	Level	%REC Limits
Surr: DOSS-D34	198		183	108 50-150

Matrix Spike (B0I1601-MS3)

Prepared: 9/17/2010 Analyzed: 9/21/2010 Source: 1009034-11

Targets

ANALYTE		Analyte Reporting Qualifiers Limit			%REC Limits	
Dioctyl sulfosuccinate, sodium	91.2	20.0	90.4	101	50-150	

Matrix Spike Dup (B0I1601-MSD1)

Prepared: 9/17/2010 Analyzed: 9/21/2010 Source: 1009030-02

Surrogates

	Result	Analyte	Spike		%REC
ANALYTE	μg/l	Qualifier	Level	%REC	Limits
Surr: DOSS-D34	215		227	94.7	50-150

Matrix Spike Dup (B0I1601-MSD1)

Source: 1009030-02 Prepared: 9/17/2010 Analyzed: 9/21/2010

Targets

ANALYTE		Analyte Reporting Qualifiers Limit			%REC Limits	RPD	RPD Limit
Dioctyl sulfosuccinate, sodium salt	109	20.0	112	97.6	50-150	3.73	30

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DOSS by LC/MS/MS - Quality Control

Batch: B0I1601 Sample Type: Liquid

Matrix Spike Dup (B0I1601-MSD2)

Source: 1009034-02 Prepared: 9/17/2010 Analyzed: 9/21/2010

Surrogates

ANALYTE	Result	Analyte	Spike	%REC
	µg/l	Qualifier	Level	%REC Limits
Surr: DOSS-D34	140		148	94.5 50-150

Matrix Spike Dup (B0I1601-MSD2)

Prepared: 9/17/2010 Analyzed: 9/21/2010 Source: 1009034-02

Targets

ANALYTE		Analyte Reporting Qualifiers Limit			%REC Limits	RPD	RPD Limit
Dioctyl sulfosuccinate, sodium salt	72.3	20.0	73.0	99.1	50-150	5.51	30

Matrix Spike Dup (B0I1601-MSD3)

Prepared: 9/17/2010 Analyzed: 9/21/2010 Source: 1009034-11

Surrogates

	Result	Analyte	Spike		%REC
ANALYTE	μg/l	Qualifier	Level	%REC	Limits
Surr: DOSS-D34	171		183	93.4	50-150

Matrix Spike Dup (B0I1601-MSD3)

Source: 1009034-11 Prepared: 9/17/2010 Analyzed: 9/21/2010

Targets

ANALYTE		Analyte Reporting Qualifiers Limit			%REC Limits	RPD	RPD Limit
Dioctyl sulfosuccinate, sodium salt	89.6	19.5	90.4	99.2	50-150	1.78	30

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Conta	Contact Kristia Marr							SII de l	Lab. U.S. EPA Region 6 Laboratory	
	Phone: 713.985.6636							רמה היא	Lab Phone: 281-983-2137	aboratory -983-2137
Lab#	Sample #	Analyses	Matrix	Collection	Collection Collected Method	Sample	Numb	Numb Container Cont	Preservative	MS/MSD
	T008-R603-100914-SW-09-1	DOSS	Surface Water	Grab	9/14/2010	11:00	2	20 ml VOA	4 C	z
	T008-R603-100914-SW-17-1	DOSS	Surface Water	Grab	9/14/2010	10:29	9	6 20 ml VOA	4 C	>-
	T008-R604-100914-SW-11-1	DOSS	Surface Water	Grab	9/14/2010	11:48	2	20 ml VOA	4 C	z
	T008-R604-100914-SW-21-1	DOSS	Surface Water	Grab	9/14/2010	11:48	2	2 20 ml VOA	4 C	z
	T008-R607-100914-SW-12-1	DOSS	Surface Water	Grab	9/14/2010	15:10	2	2 20 ml VOA	4 C	z
	T008-R607-100914-SW-24-1	DOSS	Surface Water	Grab	9/14/2010	14:48	2	20 ml VOA	0 4 C	z
9 <u>a</u>	Special Instructions: Items/Reason Relinquished by	9 Date Received by 9.14-70 Clary	No.		Items/Reason	SA CH	SAMPLES CHAIN OF	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY # CHAIN OF CUSTODY # Property of Control of	and	Date Time
	Allen Salah	Letter 9-15-10 Malf	4 9-14-80 0549	£2.	V				0	

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Tool-1462-100914-SW-02-1 Docs	713-985-6600 US EPA/Weston Venice, LA	0 ston			RUB Deep H2O Horzon Reporting Lab: EPA Houston Lab Lab_State: TX	Lab: EPA Houston Lab Lab_State: TX	ston Lab					Lab_(La	Lab_City. Houston Lab_Zip: 77099
Suffice Water Grab 91/4/2010 08.25 2.0 ml VOA 4.0 V	Lab# San	# bjdu	Analyses	×	atrix	Collect ion Method	Collected		Numb	Container	Preservativ e	MS/MS D	Description
Sunface Water Grab 914/2010 08:00 6:20 ml VOA 4C V	T00	11-1462-100914-SW-08-1	DOSS	S	urface Water	Grab	9/14/2010	08:25	2	20 ml VOA	40	z	
Sunface Water Grab 914/2010 09:30 2 20 ml VOA 4 C N	TOC	11-1462-100914-SW-14-1	DOSS	S	urface Water		9/14/2010	08:00	9	20 ml VOA	4 C	>-	
Surface Water Grab 91/4/2010 15:54 6 20 ml VOA 4 C Y	TOC	11-1466-100914-SW-08-1	DOSS	S	urface Water	Grab	9/14/2010	09:45	2	20 ml VOA	4 C	z	
SamPLES TRANSFERRED FROM CHAIN OF CUSTODY #	TOC	11-1466-100914-SW-14-1	DOSS	S	urface Water		9/14/2010	06:30	2	20 ml VOA	4 C	z	
SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #	5	100101100110011001		9	and a company of the	65	0107#12	100			2	-	
Relinquished by Date Received by Date Time Items/Reason Relinquished by Date Received by Date Million Million H. 9-14-10 1945 White H. 3-04-10 Million H. 9-19-10 0949 Million Price Harris 9-15-10 Million H. 9-19-10 Million Harris 9-15-10 Million Har	l Instru	ctions:								SAMPLES TE	ANSFERRED JSTODY #	FROM	
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	s/Rea	S 11/2	1,0 101	Olive H.	Date 9-14-10	1945 549	Items/Rea		We H.	0.50 9 000	Marti	000	14/p 73/7 1-15/p 9:-

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Notes and Definitions

Α This sample was extracted at a single acid pH.

HTS Sample was prepared and/or analyzed past recommended holding time. Concentrations should be

considered minimum values.

AES Atomic Emission Spectrometer

CVAA Cold Vapor Atomic Absorption

ECD Electron Capture Detector

GC Gas Chromatograph

GFAA Graphite Furnace Atomic Absorption

ICP Inductively Coupled Plasma

MS Mass Spectrometer

NA Not Applicable

NPD Nitrogen Phosphorous Detector

NR Not Reported

TCLP Toxicity Characteristic Leaching Procedure

Undetected U

Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds per square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

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